

AMENDMENTS TO THE SPECIFICATION

Please amend the specification at the paragraphs indicated below such that the paragraphs of the specification at those indicated locations are as follows:

A) The paragraph beginning at page 13, line 12, and continuing through to line 23:

As shown in the graphs of Figures 5 and 6, there are inverse relationships between lamp efficacy, lamp CRI and the lamp operating voltage. For an acceptable white light source with acceptable coloration, the lamp CRI, as indicated above, needs to be in the range of 50 to 70. As can be seen from Figure 6 showing the relationship between lamp CRI and lamp operating voltage, keeping the voltage drop between the lamp electrodes during operation below 100V by quantity choices for the mercury and starting gas constituents of the chamber contents, chamber shape, and the like, enables maintaining a lamp CRI of between 50 and 70. Yet, from Figure 5 showing the relationship between lamp efficacy and ~~lamp operating voltage~~ CRI, lamps operated with such an operating voltage will have sufficiently large efficacy in the range of 120 to 140 LPW to be competitive with high pressure sodium lamps.

B) Table 3 following the paragraph beginning at page 16, line 11 and preceding the heading Example 4 at line 26:

Table 3

Sample Lamp	Position	Wattage (W)	Output (lumens)	Efficacy (lpw)	CCT (K)	CRI	DUV (× 100)	Lamp Voltage	Maximum Temp.
#5	Horizontal	250	19150 <u>32960</u>	128 <u>132.0</u>	3528 <u>3330</u>	67 <u>66</u>	+1.31 <u>+1.30</u>	118V <u>110V</u>	1283 °C
#6	Vertical <u>Horizontal</u>	250	17890 <u>34220</u>	119 <u>136.8</u>	3071 <u>3805</u>	61 <u>64</u>	+0.39 <u>+2.10</u>	78V <u>79V</u>	1201 °C